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#6

<110> RheinBiotech Gesellschaft fur neue biotechnologische Prozesse
und Produkte mbH

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Gellissen, Gerd

DeVergilio, Claudio

<120> Heat-Inducible Promoter

<130> PCT1106-01966

<140> 09/927,811

<141> 2001-08-09

<150> PCT/EP00/01144

<151> 2000-02-11

<160> 27

<170> PatentIn version 3.1

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<213> Hansenula polymorpha

<400> 1

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<222> (1)..(15)
<223> ,n may be a,c,t, or g

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<223> Special embodiment of the heat shock element
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<210> 4
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> Nucleic acid sequence of a heat shock element

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<210> 5
<211> 15
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<223> Nucleic acid sequence of a heat shock element

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 35 40 45
 Pro Phe Arg Trp Phe Gly Trp Pro Gly Met Ser Val Asp Ser Glu Gln
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 Gly Arg Gln Thr Val Glu Arg Asp Leu Lys Glu Lys Phe Asn Cys Tyr
 65 70 75 80
 Pro Ile Trp Leu Ser Asp Glu Ile Ala Asp Leu His Tyr Asn Gly Phe
 85 90 95
 Ser Asn Ser Ile Leu Trp Pro Leu Phe His Tyr His Pro Gly Glu Met
 100 105 110
 Asn Phe Asp Glu Ile Ala Trp Ala Ala Tyr Leu Glu Ala Asn Lys Leu
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 Phe Cys Gln Thr Ile Leu Lys Glu Ile Lys Asp Gly Asp Val Ile Trp
 130 135 140
 Val His Asp Tyr His Leu Met Leu Leu Pro Ser Leu Leu Arg Asp Gln
 145 150 155 160
 Leu Asn Ser Lys Gly Leu Pro Asn Val Lys Ile Gly Phe Phe Leu His
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 Thr Pro Phe Pro Ser Ser Glu Ile Tyr Arg Ile Leu Pro Val Arg Lys
 180 185 190
 Glu Ile Leu Glu Gly Val Leu Ser Cys Asp Leu Ile Gly Phe His Thr
 195 200 205

Tyr Asp Tyr Val Arg His Phe Leu Ser Ser Val Glu Arg Ile Leu Lys
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 225 230 235 240
 Val Ser Ala Tyr Pro Ile Gly Ile Asp Val Asp Lys Phe Leu Asn Gly
 245 250 255
 Leu Lys Thr Asp Glu Val Lys Ser Arg Ile Lys Gln Leu Glu Thr Arg
 260 265 270
 Phe Gly Lys Asp Cys Lys Leu Ile Ile Gly Val Asp Arg Leu Asp Tyr
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 Ile Lys Gly Val Pro Gln Lys Leu His Ala Phe Glu Ile Phe Leu Glu
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 Arg His Pro Glu Trp Ile Gly Lys Val Val Leu Ile Gln Val Ala Val
 305 310 315 320
 Pro Ser Arg Gly Asp Val Glu Glu Tyr Gln Ser Leu Arg Ala Ala Val
 325 330 335
 Asn Glu Leu Val Gly Arg Ile Asn Gly Arg Phe Gly Thr Val Glu Phe
 340 345 350
 Val Pro Ile His Phe Leu His Lys Ser Val Asn Phe Gln Glu Leu Ile
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 Ser Val Tyr Ala Ala Ser Asp Val Cys Val Val Ser Ser Thr Arg Asp
 370 375 380
 Gly Met Asn Leu Val Ser Tyr Glu Tyr Ile Ala Cys Gln Gln Asp Arg
 385 390 395 400
 Lys Gly Ser Leu Val Leu Ser Glu Phe Ala Gly Ala Ala Gln Ser Leu
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 Asn Gly Ala Leu Val Val Asn Pro Trp Asn Thr Glu Glu Leu Ser Glu
 420 425 430
 Ala Ile Tyr Glu Gly Leu Ile Met Ser Glu Glu Lys Arg Arg Gly Asn
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<210> 9
 <211> 26
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 <220>
 <223> PCR primer F1 (forward)
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 <221> misc_feature
 <222> (1)..(26)
 <223> n is a, c, t, or g; v is a, c, or g; y is c or t;
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 <223> n is a, c, t, or g; v is a, c, or g; y is c or t;

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26

<210> 10
 <211> 24

<212> DNA
 <213> Artificial Sequence
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 <223> PCR primer R1 (backward)
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 <221> misc_feature
 <222> (1)..(24)
 <223> r is a or g; b is c, g, or t; y is c or t, h is a, c, or t

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 <210> 11
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 <400> 13
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 <210> 14
 <211> 22
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 <223> Sequencing primer F7 (forward)

 <400> 14
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 <210> 15
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<213> Artificial Sequence
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 <213> Artificial Sequence
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 <223> Sequencing primer F9 (forward)
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 <223> Sequencing primer F10 (forward)
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 <210> 18
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<220>

<223> Sequencing primer R9 (backward)

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<220>

<223> Sequencing primer Plasm. F (forward)

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<213> Artificial Sequence

<220>

<223> Sequencing primer Plasm. R (backward)

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